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**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS**

1. (Previously Presented) A method for correlating a first sensor to a second sensor in an intrusion detection system, the first and second sensors each maintaining belief over a number of possible states of the system, the method comprising the steps of:
  - (a) transmitting to the first sensor information about the second sensor's belief state, said belief state indicating a state of at least one system resource or service; and
  - (b) adjusting a prior belief state of the first sensor, said belief state indicating a state of at least one system resource or service, the adjustment based at least in part on the second sensor's belief state.
2. (Original) The method of claim 1 wherein the first and second sensors are different types of sensors.
3. (Original) The method of claim 2 wherein the first sensor is a probabilistic sensor.
4. (Original) A method for reducing false alarms generated by an intrusion detection system when a monitored resource is degraded or compromised, the intrusion detection system having a first and second sensors each maintaining belief over a number of possible states of the system, the method comprising the steps of:
  - (a) transmitting to the first sensor all or part of the belief of the second sensor regarding an apparent normal, degraded or compromised state of a monitored resource; and
  - (b) adjusting a prior belief state of the first sensor so that an erroneous transaction with the degraded or compromised resource does not generate an alarm.
5. (Original) A method for enhancing the sensitivity of an intrusion detection system

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that monitors a plurality of computer system resources, the intrusion detection system having a first and second sensors each maintaining belief over a number of possible states of the system, the method comprising the steps of:

(a) transmitting to the first sensor all or part of the belief of the second sensor regarding the existence or validity of services supported on monitored computer system resources; and

(b) adjusting a prior belief state of the first sensor so that an attempted communication with a nonexistent system service or resource appears suspicious.

6. – 9. (Cancelled)